

Filter cleaning - uses compressed air saturated with solvent in spray to force residual permeate back through membrane pores followed by further cleaning with compressed air or water

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Abstract

For the cleaning of filter, micro-filter and ultrafilter assemblies, initially the permeate runs freely out of the module through an intermediate pressure vessel. In the back rinsing process, compressed air or other gas medium is delivered by a jet through a compressed air connection directly at the permeate outlet of the module, saturated with a special fine spray of solvent or other medium. The residual permeate is forced back through the module and the sprayed solvent is forced into pores of the membrane. Through a compressed air valve at the vessel, clean compressed air forces any permeate or clear water in the vessel back to give the membrane further cleaning. USE/ADVANTAGE - Used for cleaning filters where they can be heavily clogged. The back rinsing action gives an effective cleaning operation, to increase the filtering effect, and prevent build-up around the membrane assembly.

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